

FIG. 1

1 6 11 16 21 26 31 36 41 46

SEQ ID NO: 2 1-50 SEKSEEINEKDLRKKSELQGTALGNLKQIYYNSKAITSSSEKSADQFLTN

51-100 TILFKGFFTGHFWYNDLLVDLGSTAAATSEYEGSSVDLYGAYGYQCAGGT

101-150 PNKTACMYGGVTLHDNNRLTEEKKVPINLWIDGKQTTVPIDKVKTSKEV

151-200 TVQELDLQARHYLHGKFLYNSDSFGGKVQRGLIVFHSSEGSTVSYDLFD

201-233 AQQQYPDTLLRIYRDNTTISSTSLISLYLYTT

FIG. 2

SEQ ID NO: 3 SEAE18: SEKSEEINEKDLRKKSELQGTALGNLKQIYYN--EKAITENKESDDQF
 SEQ ID NO: 4 SEA : SEKSEEINEKDLRKKSELQGTALGNLKQIYYN--EKAKTENKESHQDF
 SEQ ID NO: 5 SED : ALHKKSELSTALNNMKHSYADA--NPIIGANKSTGDDQF
 SEQ ID NO: 6 SEH : EDLHDKSELTDLALANAYGQYNHPFIKENIKSDEISGEKDL

SEAE18: LENTLLFKGFFTGHPWYNDLLVLDLGSKDATNKYKGGKVDLYGAYGYQCA
 SEA : LQHTLLFKGFFTDHSWYNDLLVDFDSKDIVDKYKGGKVDLYGAYGYQCA
 SED : LENTLLYKAF--LLINFSAEMAQHFKSKNVVDVYAIRYAAAC--
 SEH : IFRNQDGS--NDLRVKFATADLAQKFKNKNVDIYGASFYKCE

SEAE18: GGTPNKACMYGGVTLHDNNRLTEKKVPINLWIDGKQTTVPIDKVKTSK
 SEA : GGTPNKACMYGGVTLHDNNRLTEKKVPINLWLDGKQNTVP--LFTVKTNK
 SED : --RTACTYGGVTPHAGNALKARKKIPINLWIIGVQKEVSLDKVQTDK
 SEH : KISENISECLYGGTTLN--SEKLAQERVIGANVWVDGIQKETE--LIRTNK

SEAE18: KEVTVQELDLQARHYLHGKFLYNSDSFGGKVQRGLIVFHSSEGSTVSVD
 SEA : KNVTVQELDLQARRYLOEKYNLYNSDVFDGKVQRGLIVFHTSTEPSVNYD
 SED : KNVTVQELDLQARRYLOKDLKLYN--AIQRGKLEFDSAASKVSYD
 SEH : KNVTVQELDLKIRKILSDKYKIYY--KDELSKGLIEFDMKTPRDYSFD

SEAE18: LFDAQGQYPTLLRIYRDNKTINSEN-LHIALYLYTT
 SEA : LFDAQGQYSNTLLRIYRDNKTINSEN--HIDIYLYTS
 SED : LFDVAGDFFPEKQLRIYSDNKTILSTEHLHIDIYLYEA
 SEH : IYDLKGENDYEDKIYEDNKTILKSDDISLHIDVNLTYTKKKV

FIG. 3

SEQ ID NO: 2	SEA/E-120	SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNKSAITSEKESADQFLTNLLFKGFFT	60
SEQ ID NO: 3	SEA/E-18	SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNKSAITENKESDDQFLENTLLFKGFFT	60
SEQ ID NO: 7	SEE	SEKSEEINEKDLRKKSELQGNALSNLRQIYYYNKSAITENKESDDQFLENTLLFKGFFT	60
SEQ ID NO: 4	SEA	SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNKSAITENKESHQDFLQHTILFKGFFT	60
		***** .**.:*****.** *.:** * * * * * :*:*****.	
		C	
	SEA/E-120	HPWYNLLVLDGSTAATSEYEGSSVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT	120
	SEA/E-18	HPWYNLLVLDGSKDATNKYKGGKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT	120
	SEE	HPWYNLLVLDGSKDATNKYKGGKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT	120
	SEA	HSWYNLLVDFDSKDIVDKYKGGKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT	120
		*.*****:..*.:*..***** ***** *****	
		EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFEGKVQ	180
	SEA/E-120	EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFEGKVQ	180
	SEA/E-18	EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFEGKVQ	180
	SEE	EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFEGKVQ	180
	SEA	EEKKVPINLWIDGKQNTVPLETVKTNKKNVTVQELDLQARRYLQEKYNLYNSDVDFGKVQ	180
		*****:*****:****.***.***:*****:***:*.******.*****	
		D	
	SEA/E-120	RGLIVFHSSEGSTVSYDLFDAQGQYDPDTLLRIYRDNTTISSTLSISLYLYTT	233
	SEA/E-18	RGLIVFHSSEGSTVSYDLFDAQGQYDPDTLLRIYRDNKTINSENHIALYLYTT	233
	SEE	RGLIVFHSSEGSTVSYDLFDAQGQYDPDTLLRIYRDNKTINSENHIDL YLYTT	233
	SEA	RGLIVFHTSTEPSVNYDLFGAQGQYSNTLLRIYRDNKTINSENMHIDIYLYTS	233
		*****.*.***.*****:***** *****.*.*.:*****.	

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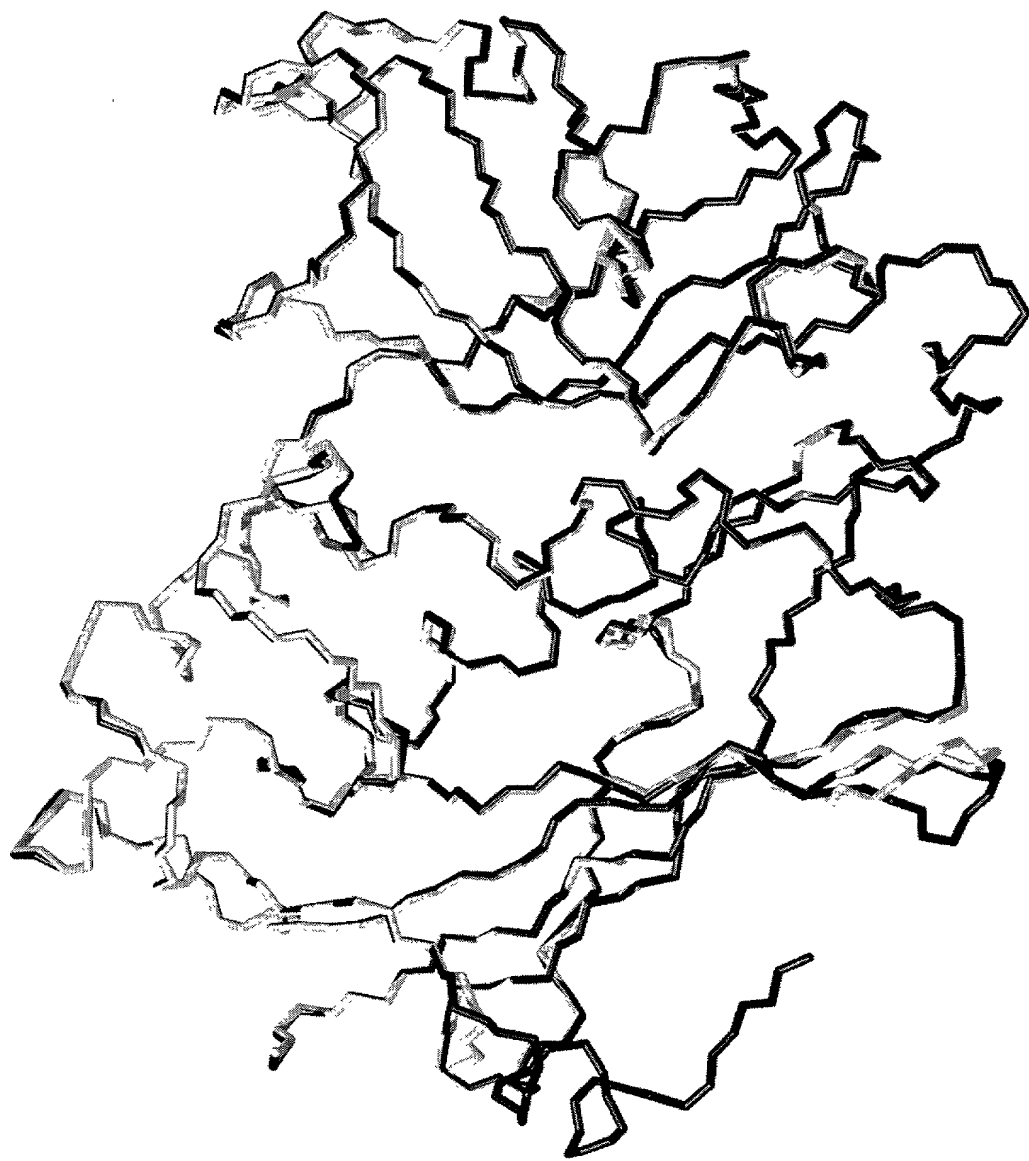


FIG. 5

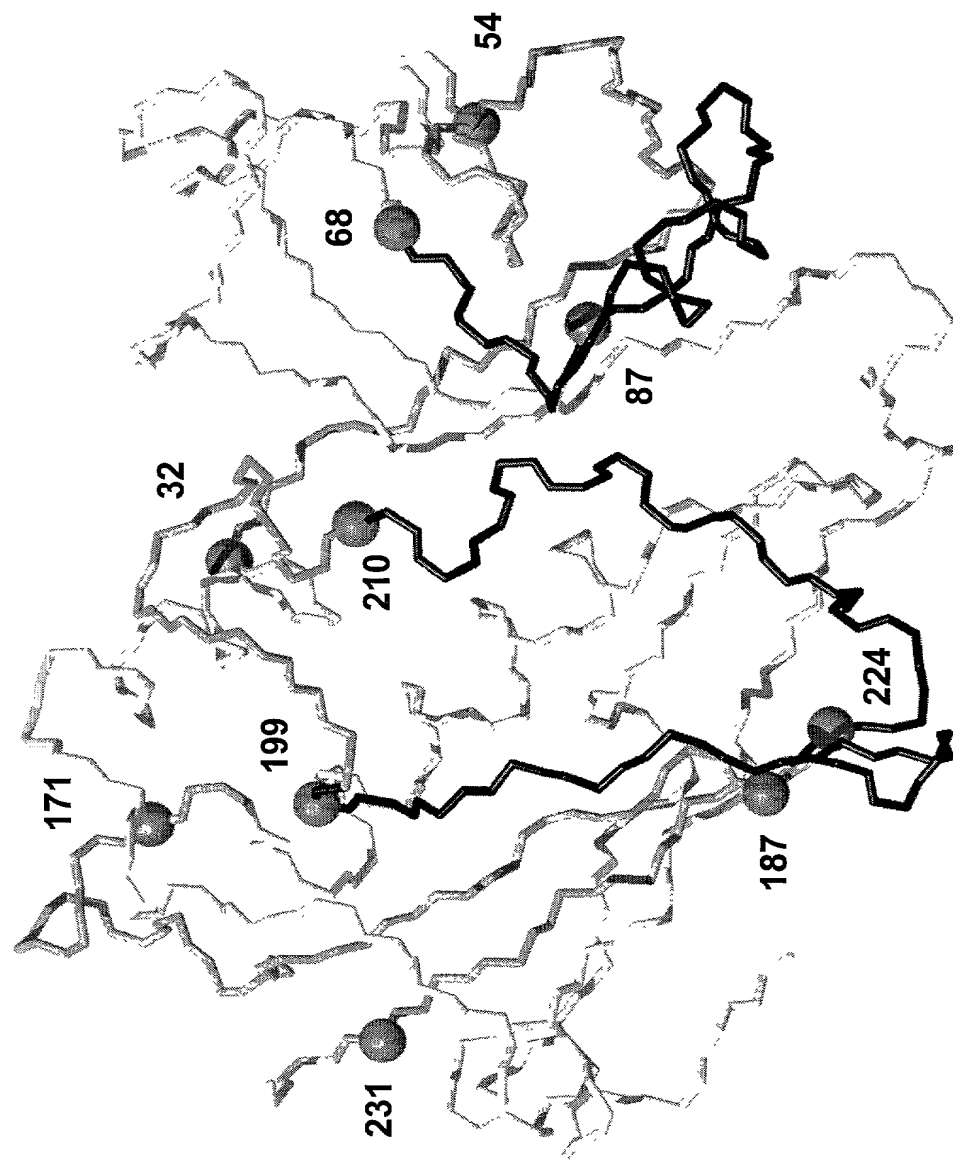


FIG. 6

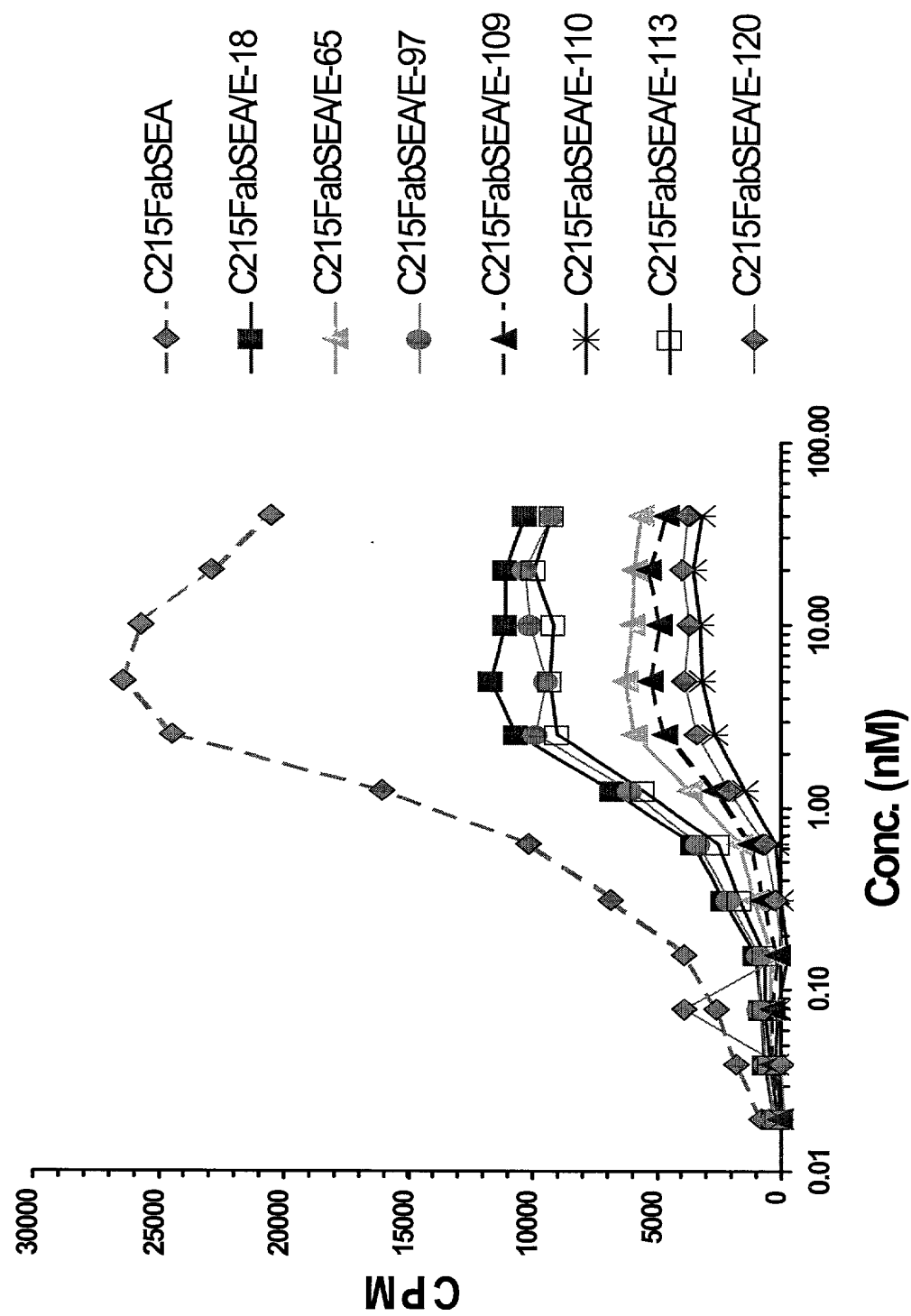


FIG. 7

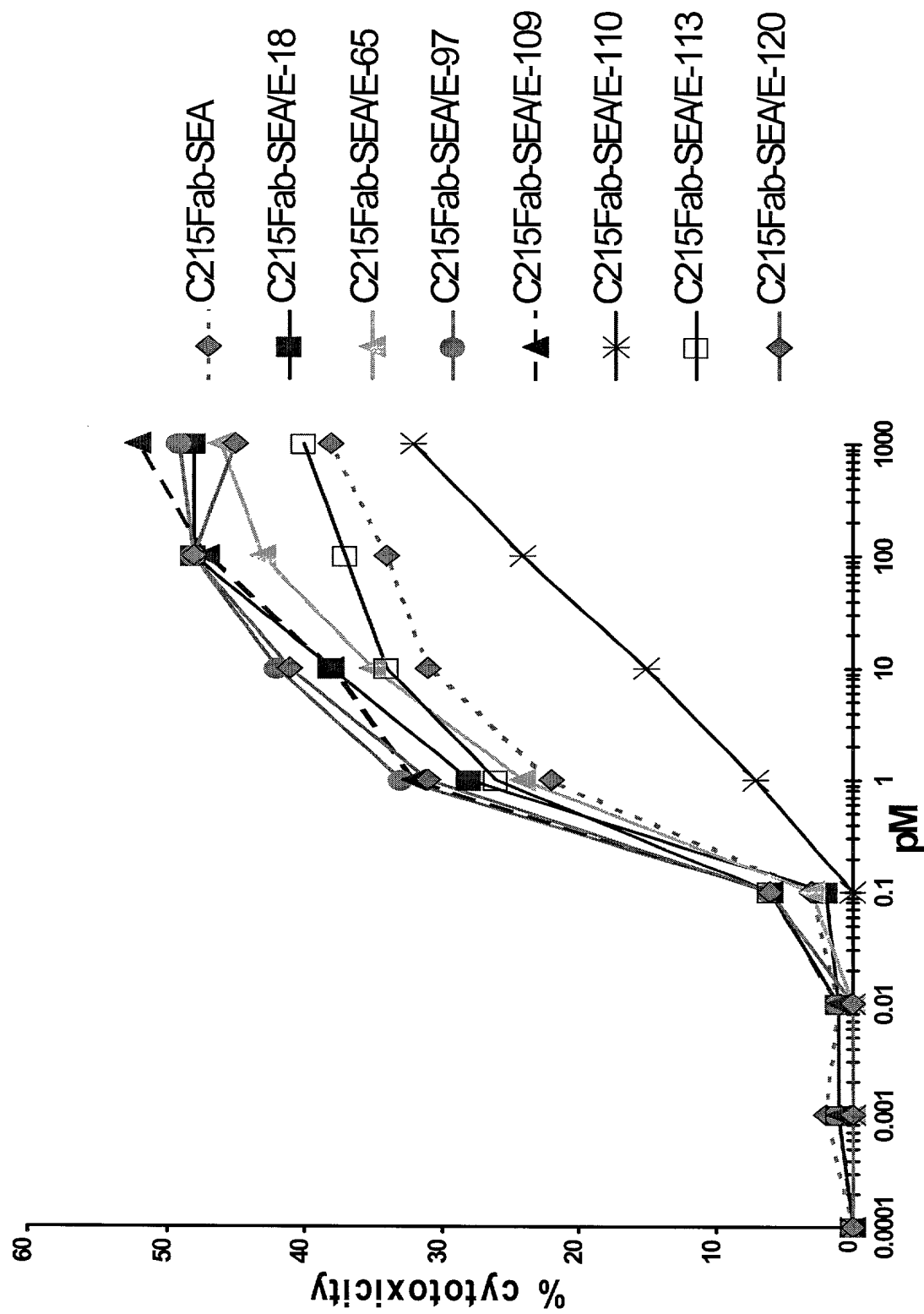


FIG. 8A

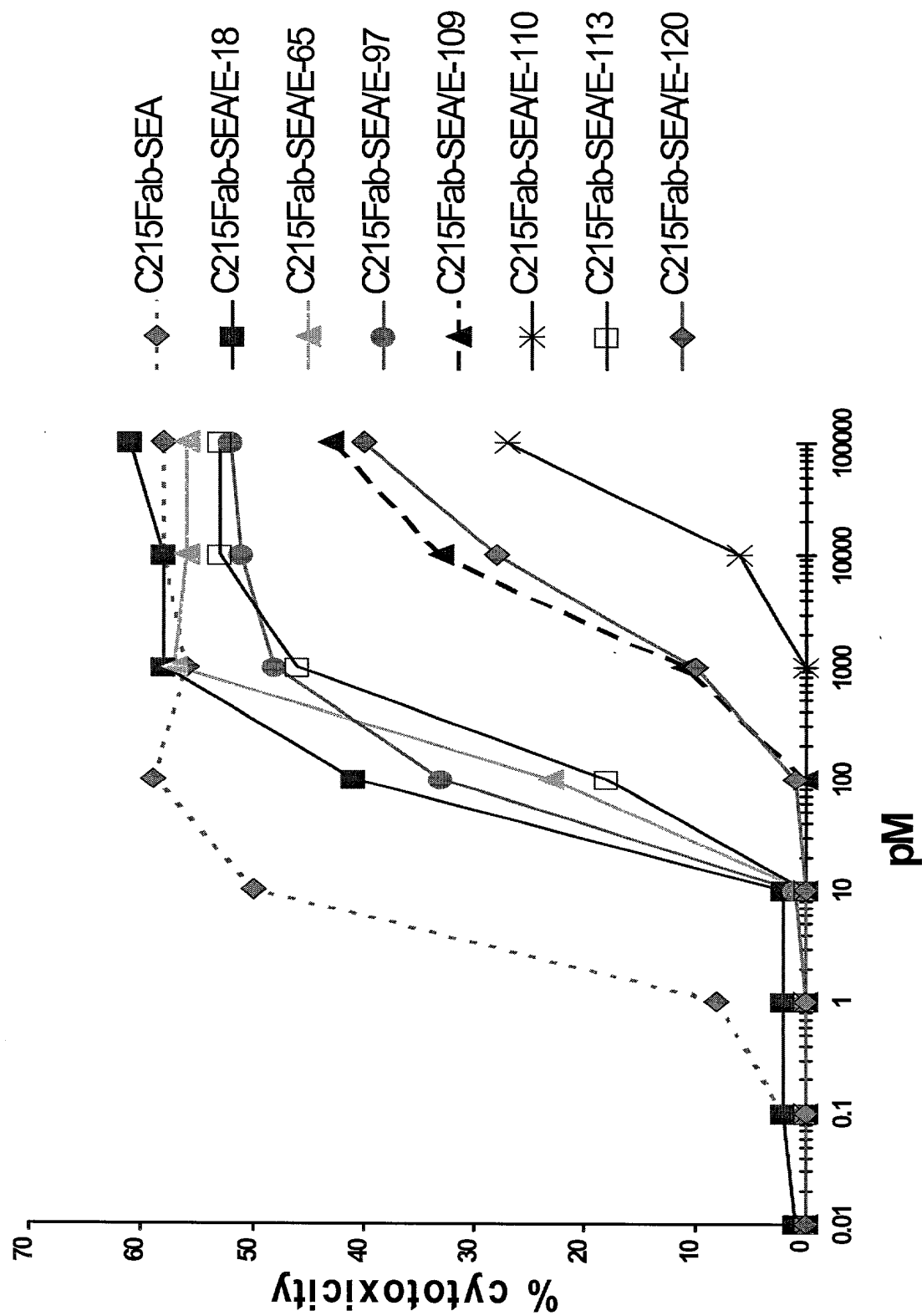


FIG. 8B

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FIG. 9

5T4 Variable Heavy chain

SEQ ID NO: 1 1-50

EVQLQ QSGPD LVKPG ASVKI SCKAS GYSFT GYMH WVKQS PGKGL EWIGR

51-100

INPNN GVTLY NQKFK DKATL TVDKS STTAY MELRS LTSED SAVYY CARST

101-150

MITNY VMDYW GQGT S VTVSS AKTTP PSVYP LAPGS AAQTN SMVTL GCLVK

151-200

GYFPE PVTVT WNSGS LSSGV HTFPA VLQSD LYTLS SSVTV PSSTW PSETV

201-250

TCNVA HPASS TKVDK KIVPR DSGGP SEKSE EINEK DLRKK SELQG TALGN

251-300

LKQIY YYNSK AITSS EKSAD QFLTN TLLFK GFFTG HPWYN DLLVD LGSTA

301-350

ATSEY EGSSV DLYGA YGYQ CAGGT PNKTA CMYGG VTLHD NNRLT EEKKV

351-400

PINLW IDGKQ TTVPI DKVKT SKKEV TVQEL DLQAR HYLHG KFGLY NSDSF

401-450

GGKVQ RGLIV FHSSE GSTVS YDLFD AQQY PDLTL RIYRD NTTIS STSLS

451-500

ISLYL YTTSI VMTQT PTSLL VSAGD RVTIT CKASQ SVSND VAWYQ QKPGQ

501-550

SPKLL ISYTS SRYAG VPDRE SGSGY GTDFT LTISS VQAED AAVYF CQQDY

551-600

NSPPT FGGGT KLEIK RADA PTVSI FPPSS EQLTS GGASV VCFLN NFYPK

601-650

DINVK WKIDG SERQN GVLS WTDQD SKDST YSMSS TLTLT KDEYE RHNSY

651-672

TCEAT HKTST SPIVK SENRN ES

C242 Constant Heavy chain

SEA/E-120

5T4 Variable Light chain

C242 Constant Light chain

FIG. 10